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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,445	09/23/2003	Joseph A. Marino	C516.12-0014	2339
164 7590 12/05/2008 KINNEY & LANGE, P.A. THE KINNEY & LANGE BUILDING 312 SOUTH THIRD STREET MINNEAPOLIS, MN 55415-1002			EXAMINER PRONE, CHRISTOPHER D	
			ART UNIT 3738	PAPER NUMBER
			MAIL DATE 12/05/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/668,445

**Applicant(s)**

MARINO ET AL.

**Examiner**

CHRISTOPHER D. PRONE

**Art Unit**

3738

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 October 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-3,5-10,12-19,21-26,28-33,35-40 and 42-44 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-10,12-19,21-26,28-33,35-40 and 42-44 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Final Drawing Review (PTO-849)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 5, 8-10, 12, 17-19, 21, 24-26, 28, 31-33, 35, 38-40, and 42 are rejected under 35 U.S.C. 103 as being unpatentable over United States Patent Huebsch 5,853,422 in view of King et al United States Patent 3,874,88.

In regards to claims 1, 8, 17, 24, 31, and 38 Huebsch discloses the invention substantially as claimed being an automatic loading mechanism for an occlusion device comprising: a right occluding body (200) comprising a support frame made up of a plurality of arms attached to a fixed center post (242) and puller arms connected to a floating center post (216) extending externally of the right occluding device (shown below in figure 17), and a left occluding body (comprising a plurality of arms attached to a fixed center post. Huebsch discloses that first and second support frames (222) comprise elastic shape memory fixation devices described in column 3 on lines 64-67 of Huebsch, right and left sheets described in column 4 on lines 25-26. The floating center is positioned adjacent the fixed center when the body is in the open state (figures 16 and 17). The floating center is movable proximally from the fixed center when in the compressed shape shown in figure 14, wherein when the body is in the compressed

state the fixed center can be pulled out or pushed out away from the floating center.

(See Figures included below for further explanation)

In reference to claims 2, 9, 18, 25, 32, and 39, Huebsch discloses the same invention wherein the puller arms are constructed of nickel titanium described in column 3 on lines 64-67 of Huebsch.

In reference to claims 3, 10, 19, 26, 33, and 40, Huebsch discloses the same invention wherein an angle between adjacent puller arms is between about 5 degrees and about 180 degrees shown in figures 3 and 4 of Huebsch.

In reference to claims 5, 12, 21, 28, 35, and 42, Huebsch discloses the same invention wherein the floating center post comprises an axially extending groove (236) which reversibly connects with an axially extending pin (240) extending from the fixed center post shown in figures 15-17 of Huebsch.

However, Huebsch does not disclose a grasping knob on the right end of the center post.

King teaches the use of an occlusion device with center posts and occluding bodies. The floating center of King (figure 2B) comprises a core with a threaded engagement and a rounded knob on its right end in the same field of endeavor for the purpose of providing a releasable but secure engagement with the delivery device and a smooth delivery end to the occluding device.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to replace the hollow core and t connection of Huebsch with a solid threaded core and to add the rounded knob as taught by King in order to make the

engagement with the delivery device more secure and round off the end of the occluding device to enhance the delivery of the occluding device.

Claims 6, 7, 13, 14, 22, 23, 29, 30, 36, 37, 43, and 44 are rejected under 35 U.S.C. 103 as being unpatentable over Huebsch in view of King as applied to claims 1-3, 5, 8-10, 12, 17-19, 21, 24-26, 28, 31-33, 35, 38-40, and 42 above and further in view of Forber United States Patent 5,733,294.

Huebsch as modified by King discloses the invention substantially as claimed being described supra. However, the combination does not disclose that the floating and fixed center posts are constructed of platinum-iridium.

Forber teaches the use of an occlusion device with center posts constructed of platinum-iridium (column 3 lines 42-43) in the same field of endeavor for the purpose of providing a center post with a high level of radiopacity.

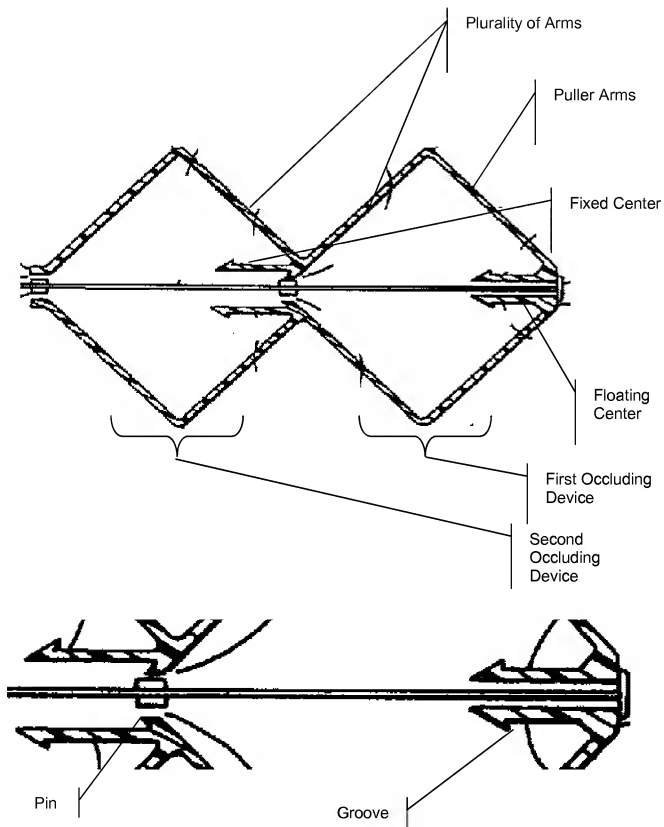
It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the floating and fixed center posts of Huebsch out of platinum-iridium as taught by Forber in order to make the device stronger and more durable.

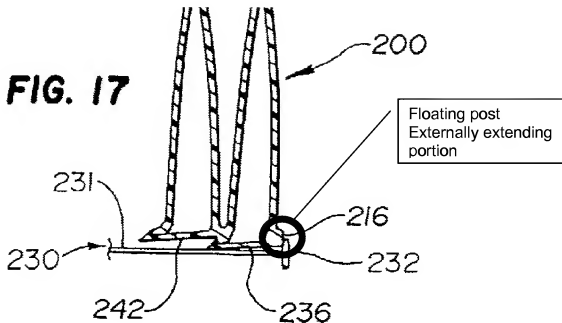
Claims 15 and 16 are rejected under 35 U.S.C. 103 as being unpatentable over Huebsch in view of King as applied to claims 1-3, 5, 8-10, 12, 17-19, 21, 24-26, 28, 31-33, 35, 38-40, and 42 above and further in view of Marks United States Patent 5,108,420.

Huebsch as modified by King discloses the invention substantially as claimed being described supra. However, the combination does not disclose that the occlusion device frame work includes an outer loop.

Marks teaches the use of an occlusion device having a framework that includes an outer loop (23) in the same field of endeavor for the purpose of providing additional support throughout the outer edge of the occlusion device.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to add the outer support ring taught by Marks to the occlusion device of Huebsch order to better support the outer edges of the first and second occlusion devices.





### ***Response to Arguments***

Applicant's arguments with respect to all claims have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within



TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher D. Prone whose telephone number is (571) 272-6085. The examiner can normally be reached on Monday through Fri 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher D Prone  
Examiner  
Art Unit 3738

/CDP/

/Corrine M McDermott/  
Supervisory Patent Examiner, Art Unit 3738